



New Jersey Department of Environmental Protection
Site Remediation Program

RECEPTOR EVALUATION (RE) FORM

Date Stamp
(For Department use only)

SECTION A. SITE

Site Name: AOC-19: QC Laboratory, Hess Corporation - Former Port Reading Complex (HC-PR)

Program Interest (PI) Number(s): 006148

Case Tracking Number(s) for this submission: E20130449

**This form must be attached to the Cover/Certification Form
if not submitted through a Remedial Phase Online Service**

Indicate the type of submission:

☐ Initial RE Submission

☒ Updated RE Submission

Indicate the reason for submission of an updated RE form

☐ Submission of an Immediate Environmental Concern (IEC) source control report;

☒ Submission of a Remedial Investigation Report;

☒ Submission of a Remedial Action Report;

Check if included in updated RE

☐ The known concentration or extent of contamination in any medium has increased;

☐ A new AOC has been identified;

☐ A new receptor is identified;

☐ A new exposure pathway has been identified.

SECTION B. ON SITE AND SURROUNDING PROPERTY USE

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site boundary (check all that apply):

	On-site	Off-site
None of the following	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Residences or residential property	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Public or Private Schools grades K-12	<input type="checkbox"/>	<input type="checkbox"/>
Child care centers.....	<input type="checkbox"/>	<input type="checkbox"/>
Public parks, playgrounds or other recreation areas	<input type="checkbox"/>	<input type="checkbox"/>
Other sensitive population use(s) Explain	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (check all that apply):

<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Agricultural
<input type="checkbox"/> School or child care	<input type="checkbox"/> Government	<input type="checkbox"/> Park or recreational use	
<input checked="" type="checkbox"/> Vacant	<input type="checkbox"/> Other: _____		

3. Planned future site uses and off-site use within 200 ft of site boundary (check all that apply):

<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Agricultural
<input type="checkbox"/> School or child care	<input type="checkbox"/> Government	<input type="checkbox"/> Park or recreational use	
<input type="checkbox"/> Vacant	<input type="checkbox"/> Other: _____		

Provide a map depicting the location of the proposed changes in land use. **No proposed land use changes.**

SECTION C. DESCRIPTION OF CONTAMINATION

1. Identify if any of the following exist at the site (check all that apply):

- ☐ Free product [N.J.A.C. 7:26E-1.8] identified is ☐ LNAPL* or ☐ DNAPL**. Date identified: _____
- ☐ Residual product [N.J.A.C. 7:26E-1.8]
- ☐ Other high concentration source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos)

Explain: _____

* LNAPL – measured thickness of .01 feet or more

**DNAPL – See [US EPA DNAPL Overview](#)

2. Soil Migration Pathway

Has soil contamination been delineated to the applicable Direct Contact Soil Remediation Standard? ☒ Yes ☐ No

Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? ☒ Yes ☐ No

3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

SECTION D. GROUND WATER USE

1. Has the requirement for ground water sampling been triggered? ☒ Yes ☐ No ☐ Unknown
If "No," proceed to Section F. If "Unknown," explain: _____

2. Is Ground water contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]? ☒ Yes ☐ No ☐ Unknown

Or ☐ Awaiting laboratory data with the expected due date: _____

If "Yes," provide the date that the laboratory data was available and confirmed contamination above the Ground Water Remediation Standards. Date: 08/02/2016

If "Unknown," explain: _____

If "No," or awaiting laboratory data proceed to Section F.

3. Has ground water contamination been delineated to the applicable Remediation Standard? ☐ Yes ☐ No

4. Has a well search been completed? ☒ Yes ☐ No

Date of most recent or updated well search: 09/24/2015

Identify if any of the following conditions exist based on the well search [N.J.A.C.7:26E-1.14(a)] (check all that apply):

- ☐ Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
- ☐ Potable well located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
- ☐ Ground water contamination is located within a Tier 1 wellhead protection area (WHPA).

5. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to srpgis_wrs@dep.state.nj.us. ☒ Yes ☐ No

If "No," explain: _____

6. Are any private potable or irrigation wells located within ½ mile of the currently known extent of contamination? ☒ Yes ☐ No

If "Yes," was a door to door survey completed? ☐ Yes ☒ No

If survey was not completed explain: Only one potable well was located approximately 2400 feet from the known extent of contamination. The NJ Turnpike is located between the Site and the potable well.

7. Has sampling been conducted of ☐ potable well(s) and/or ☐ non-potable use well(s)? ☐ Yes ☒ No

If "No," provide justification then proceed to Section E.

- 8 Has contamination been identified in potable well(s) above Ground Water Remediation Standards that is not suspected to be from the site? (If "Yes," provide justification) ☐ Yes ☐ No
-
- 9 Has contamination been identified in potable well(s) that is above the Ground Water Remediation Standards or Federal Drinking Water Standards? ☐ Yes ☐ No
- Provide date laboratory data was received: _____
- Or ☐ awaiting laboratory data with the expected due date: _____
- If "Yes" for potable well contamination **not attributable to background**, follow the IEC Guidance Document at <http://www.nj.gov/dep/srp/guidance/index.html#iec> for required actions and answer the following:
- Has an engineered system response action been completed on all receptors? ☐ Yes ☐ No
- Provide a brief narrative description:
- Date completed: _____ NJDEP Case Manager: _____
10. Were Non-potable use well(s) sampled and results were above Class II Ground Water Remediation Standards? ☐ Yes ☐ No
- Provide date laboratory data was received: _____
- Or ☐ awaiting laboratory data with the expected due date: _____
11. Has the ground water use evaluation been completed? ☐ Yes ☐ No

SECTION E. VAPOR INTRUSION (VI)

1. Contaminants present in ground water exceed the Vapor Intrusion Ground Water Screening Levels that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance). ... ☐ Yes ☒ No ☐ Unknown
- Or ☐ Awaiting laboratory data and the expected due date: _____
- Provide the date that the laboratory data was available and confirmed contamination above the Vapor Intrusion Trigger Levels. Date: _____
2. Other existing conditions that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance)
- ☐ Wet basement or sump containing free product or ground water containing volatile organics
 - ☐ Methane generating conditions causing oxygen deficient or explosion concern
 - ☐ Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated contamination, elevated soil gas or indoor vapor (explain):

If you answered "No," or awaiting laboratory data to Question 1., and did not check any boxes in Question 2, proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

3. Has ground water contamination been delineated to the applicable Ground Water Vapor Screening Level? ☐ Yes ☐ No
4. Was a site specific screening level, modeling or other alternative approach employed for the VI pathway? ☐ Yes ☐ No
5. Identify and locate on a scaled map any buildings/sensitive populations that exist within the following distances from ground water contamination with concentrations above the Vapor Intrusion Ground Water Screening Levels or specific threats (check all that apply):
- ☐ 30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water
 - ☐ 100 feet of any non-petroleum free product or any non-petroleum dissolved volatile organic ground water contamination
 - ☐ No buildings exist within the specified distances
6. The vapor intrusion pathway is a concern at or adjacent to the site (if "No," attach justification) ☐ Yes ☐ No

7. Has soil gas sampling of the building(s) been conducted? ☐ Yes ☐ No ☐ N/A
If "No," or "N/A," proceed to #12
8. Has indoor air sampling been conducted at the identified building(s)? ☐ Yes ☐ No
If "No," proceed to #12
9. Has indoor air contamination been identified but not suspected to be from the site?
(if "Yes," attach justification) ☐ Yes ☐ No
10. Indoor air results were above the NJDEP's Rapid Action Levels. ☐ Yes ☐ No
Provide the date that the laboratory data was available. Date: _____
Or ☐ Awaiting laboratory data with the expected due date: _____
If "Yes" to #10 above, follow the IEC Guidance Document at
<http://www.nj.gov/dep/srp/guidance/index.html#iec> **for required actions.**
The IEC engineering system response for control was implemented for all
identified structures ☐ Yes ☐ No
Date: _____ NJDEP Case Manager: _____
11. Indoor air sampling was conducted and results were above the NJDEP's Indoor Air Screening
Levels but at or below the Rapid Action Levels ☐ Yes ☐ No
Provide the date that the laboratory data was available. Date: _____
Or ☐ Awaiting laboratory data with the expected due date: _____
If "Yes" to #11 above, answer the following:
Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances
been submitted? ☐ Yes ☐ No
Date: _____
Has a plan to mitigate and monitor the exposure been submitted? ☐ Yes ☐ No
Date: _____
Has the Mitigation Response Action Report been submitted? ☐ Yes ☐ No
Date: _____
12. Has the vapor intrusion investigation been completed? ☐ Yes ☐ No
If "No," is the vapor intrusion investigation stepping out as part of the site
investigation or remedial investigation. (If "No," attach justification) ☐ Yes ☐ No

SECTION F. ECOLOGICAL RECEPTORS

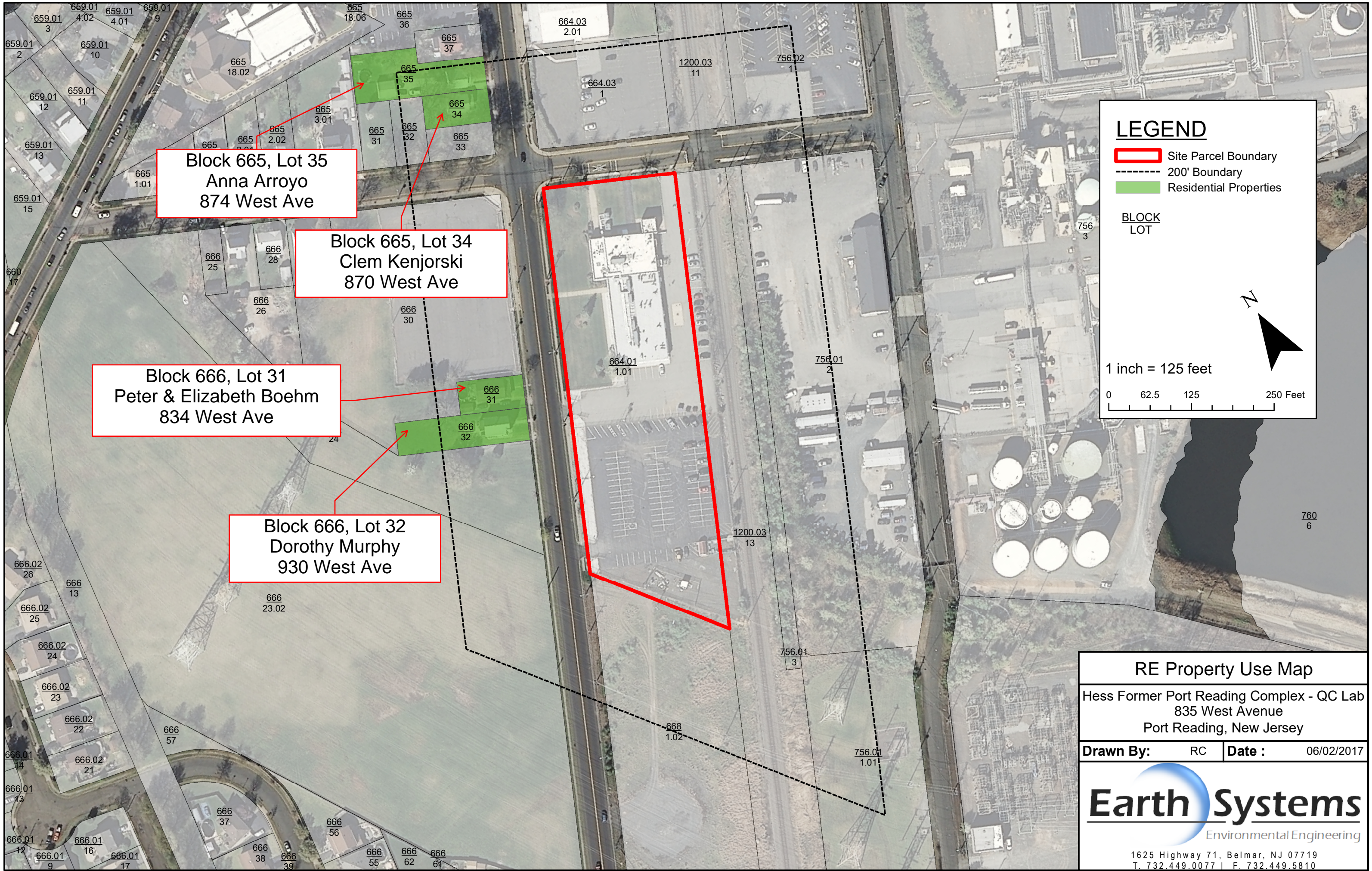
1. Has an Ecological Evaluation (EE) has been conducted? [N.J.A.C. 7:26E-1.16] ☐ Yes ☒ No
Date conducted: _____
2. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8] ☐ Yes ☒ No
3. Has a remedial investigation of ecological receptors been conducted? ☐ Yes ☒ No
Date conducted: _____
4. Provide the following information for any surface water body on or within 200 feet of the site:

Surface Water Body Name	Stream Classification	Antidegradation Designation	Trout Production	Trout Maintenance
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

5. Does the site contain any features regulated by the Land Use Regulation Program (LURP)?
(e.g. wetlands, flood hazard area, tidelands, etc.). ☐ Yes ☒ No
If "Yes," identify the type(s) of features: _____
6. Have any formal LURP jurisdiction letters or approvals been issued for the site? ☐ Yes ☒ No
If "Yes," what is the LURP Program Interest (PI) number(s) for the site? _____
7. Have any applications for formal LURP jurisdiction letters or approvals been submitted the NJDEP?..... ☐ Yes ☒ No
If "Yes," what is the LURP Program Interest (PI) number(s) for the site? _____
8. Is free product or residual product located within 100 feet from an ecological receptor? ☐ Yes ☒ No
9. Does available data indicate an impact on Ecological receptor(s), Surface water, or Sediment?..... ☐ Yes ☒ No
If "Yes,"
- a) Check all that apply:
- ☐ Ecological receptor(s) ☐ Surface water ☐ Sediment
- b) Submit with this evaluation either a technical document that includes contaminant summary information, or a description of the type of contamination, a schedule, and a description of all actions to be taken to mitigate exposure.

Completed forms should be sent to the municipal clerk, designate health department, and:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420



Block 665, Lot 35
Anna Arroyo
874 West Ave

Block 665, Lot 34
Clem Kenjorski
870 West Ave

Block 666, Lot 31
Peter & Elizabeth Boehm
834 West Ave

Block 666, Lot 32
Dorothy Murphy
930 West Ave

LEGEND

- Site Parcel Boundary
- 200' Boundary
- Residential Properties

BLOCK
LOT

659.01	3
659.01	2
659.01	4.02
659.01	4.01
659.01	9
659.01	10
659.01	11
659.01	12
659.01	13
659.01	15
659.01	17
665	18.02
665	18.06
665	36
665	37
665	35
665	3.01
665	2.02
665	31
665	32
665	34
665	33
664.03	2.01
664.03	1
1200.03	11
756.02	1
666	25
666	28
666	26
666	30
666	31
666	32
666	24
666	23.02
666	13
666.02	26
666.02	25
666.02	24
666.02	23
666.02	22
666.02	21
666.01	14
666.01	13
666.01	12
666.01	16
666.01	9
666.01	17
666	37
666	56
666	57
666	38
666	55
666	62
666	61
668	1.02
664.01	1.01
1200.03	13
756.01	2
756.01	3
756.01	1.01
756	3
760	6

1 inch = 125 feet

0 62.5 125 250 Feet

N

RE Property Use Map

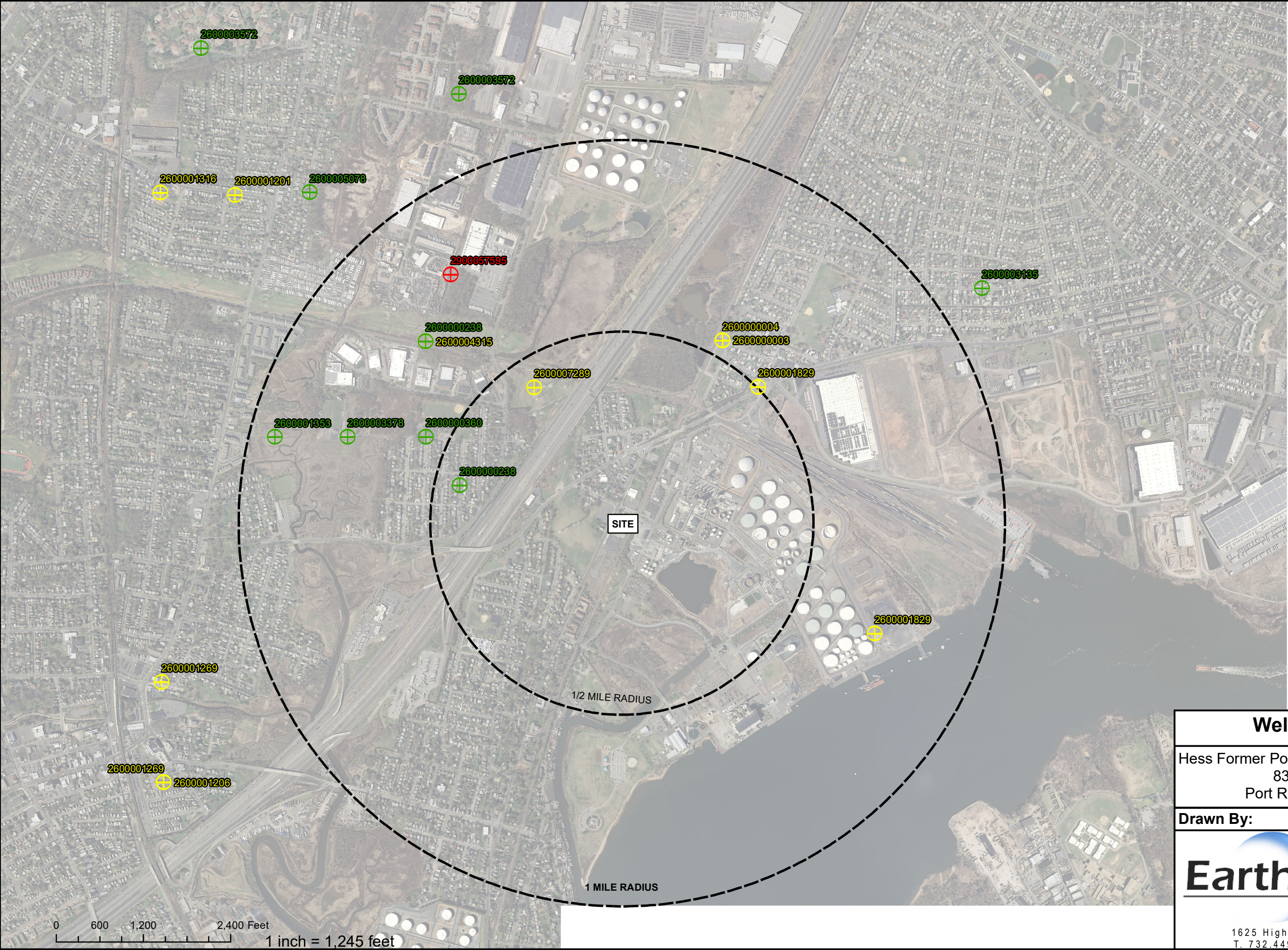
Hess Former Port Reading Complex - QC Lab
835 West Avenue
Port Reading, New Jersey

Drawn By:	RC	Date :	06/02/2017
-----------	----	--------	------------

Earth Systems

Environmental Engineering

1625 Highway 71, Belmar, NJ 07719
T. 732.449.0077 | F. 732.449.5810



LEGEND

Well Type

Domestic

Industrial

Irrigation



Well Search Map

Hess Former Port Reading Complex - QC Lab
835 West Avenue
Port Reading, New Jersey

Drawn By: RC

Date : 4/25/2017

Earth Systems

Environmental Engineering

1625 Highway 71, Belmar, NJ 07719
T. 732.449.0077 | F. 732.449.5810

	AOC 19: QC Laboratory, Hess Corporation - Former Port Reading Complex (HC-PR)	Enter no information beyond column B
SITE NAME		
SITE STREET ADDRESS	835 West Avenue	
SITE COUNTY (select)	Essex	
SITE MUNICIPALITY (select)	Newark City	
PROGRAM INTEREST (PI) ID # :	006148	
SOURCE COORDINATE X		560832
SOURCE COORDINATE Y		630273
GROUNDWATER FLOW DIRECTION USED (if any)	SE	
WERE APPLICABLE WELL TYPES FOUND? (Yes/No)	Yes	
IS THIS SUBMISSION AN UPDATE? (Yes/No)	Yes	
AUTHOR (name of company)	Earth Systems	
AUTHOR STREET ADDRESS (include town and zip code)	1625 Route 71, Belmar NJ 07719	
LSRP LICENSE NUMBER OVERSEEING WORK	576297	
LSRP NAME OVERSEEING WORK	John Virgie	
PROFESSIONAL WHO PREPARED SUBMISSION	Bill Williams	
EMAIL CONTACT	Bwilliams@Earthsys.net	
PHONE CONTACT	732-739-6444	

Download Document	Permit Number	Well Use	Potentially Potable	Document	Date (permitted/denied)	Physical Address	County	Municipality	Block	Lot	Location Method	Easting_X	Northing_Y	Distance (feet)	Depth (feet)	Capacity (gal/min)
	21030942	Domestic	Yes	Document/Denying	9/25/2015	131 Sennett Ave	Middlesex	Woodbridge Twp	911	5	GPS	957255	951740	999		
	2000007395	Irrigation	Yes	Record	9/16/2008	138 MEDFORD RD MILBURN	Monmouth	Barren Run	97	45	GPS	958460	939958	4105	182	20
	2000007389	Industrial	Yes	Record	1/16/1985	RAWLEWOOD AVE	Middlesex	Woodbridge Twp	918A	1	Prop Loc - Dig Ings	959031	935139	2219	980	5
	2000005078	Domestic	Yes	Record	3/26/1981	BARREWAY AVE	Middlesex	Woodbridge Twp	1008	24	Prop Loc - Dig Ings	958337	924820	9269	300	10
	2000004310	Industrial	Yes	Permit	1/10/1989		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	958137	933776		300	89
	2000004310	Industrial	Yes	Record	1/12/1189	100 MARBLEY ST	Middlesex	Woodbridge Twp	903	11	Prop Loc - Hand Copy	958137	933776		300	5
	2000003812	Domestic	Yes	Permit	10/25/1985		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	958040	935816		100	10
	2000003812	Domestic	Yes	Record	8/16/1985	184 EDGARTON BLVD	Middlesex	Woodbridge Twp			Prop Loc - Dig Ings	958091	935184	9332	100	5
	2000003382	Domestic	Yes	Permit	8/4/1985		Essex	Hodley Twp			Prop Loc - Hand Copy	937080	931498		200	10
	2000003378	Domestic	Yes	Permit	8/4/1985		Essex	Hodley Twp			Prop Loc - Hand Copy	937080	931498		200	10
	2000003135	Domestic	Yes	Record	4/26/1985	117 LURICH ST.	Middlesex	Woodbridge Twp			Prop Loc - Dig Ings	958800	932086	9327	100	2
	2000001820	Industrial	Yes	Record	3/26/1986	PORT READING AVE	Middlesex	Woodbridge Twp			Prop Loc - Dig Ings	952717	932148	2658	188	5
	2000001820	Industrial	Yes	Permit	4/24/1986		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	954322	928746		100	50
	2000001323	Domestic	Yes	Permit	1/26/1986		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	956037	931420		100	10
	2000001318	Industrial	Yes	Record	2/13/1987	MUMFEL ST	Middlesex	Woodbridge Twp			Prop Loc - Dig Ings	954479	924824	7819	914	30
	2000001289	Industrial	Yes	Document/Denying	9/7/1989	BARREWAY AVE	Middlesex	Woodbridge Twp	201	1-2	Prop Loc - Dig Ings	954468	928078	8709	200	70
	2000001288	Industrial	Yes	Record	9/11/1986	BARREWAY AVE	Middlesex	Woodbridge Twp			Prop Loc - Dig Ings	954468	928078	8709	200	70
	2000001288	Industrial	Yes	Permit	8/25/1986		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	954308	928088		200	85
	2000001288	Industrial	Yes	Permit	8/10/1985		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	954308	928088		200	100
	2000001281	Industrial	Yes	Permit	4/9/1985		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	953508	924793		200	80
	2000000280	Domestic	Yes	Permit	9/25/1981		Essex	Barney Cty			Prop Loc - Hand Copy	951463	935140		80	15
	2000000238	Domestic	Yes	Record	12/30/1980	22 2ND AVE	Middlesex	Woodbridge Twp	932	104	Prop Loc - Dig Ings	958605	930187	2289	146	4
	2000000238	Domestic	Yes	Permit	12/30/1980		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	958137	933776		300	5
	2000000004	Industrial	Yes	Record	4/20/1983	LANCRODN	Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	952227	932187		41	80
	2000000004	Industrial	Yes	Permit	1/18/1947		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	952227	932187		100	6
	2000000003	Industrial	Yes	Record	5/10/1948	LANCRODN	Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	952227	932187		41	45
	2000000003	Industrial	Yes	Permit	1/18/1947		Middlesex	Woodbridge Twp			Prop Loc - Hand Copy	952227	932187		100	6